

MANISH SINGH

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📍 Pune, Maharashtra 411057

SUMMARY

DevOps Engineer with 6 years of proven expertise designing, automating, and managing cloud-native infrastructures across Azure and AWS. Skilled in Infrastructure as Code (Terraform, Crossplane), CI/CD (GitHub Actions, Azure DevOps, Argo CD), and container orchestration (Docker, Kubernetes, AKS). Adept at implementing observability (Grafana, Prometheus) and GenAI solutions (RAG, Azure OpenAI) to drive innovation and operational excellence.

SKILLS

- **Cloud Platforms:** Azure (Primary), AWS
- **Infrastructure as Code:** Terraform
- **CI/CD:** GitHub Actions, Azure DevOps, Argo-CD
- **Containerization & Orchestration:** Docker, Kubernetes, Azure Kubernetes Service (AKS), Helm
- **Version Control & Collaboration:** Git, Jira, Confluence, Azure Boards
- **Automation:** Python, Bash
- **Observability:** Grafana & Prometheus
- **Gen AI:** Retrieval-Augmented Generation (RAG), Azure OpenAI, LLM, Fine tuning

EXPERIENCE

10/2022 - Current

DevOps Consultant, KPMG Global Service, Pune, India

Project: Enterprise-Wide Technology (EWT) – Data Center Automation & Networking

- Designed and implemented a standardized Azure landing zone using Terraform, cutting deployment times by 40% while reinforcing security best practices.
- Automated firewall policy configurations and networking setups to streamline operations and improve security posture.
- Implemented advanced observability solutions by developing real-time monitoring dashboards using Grafana and Prometheus for critical Azure services.
- Deployed Azure services such as Data Factory, Web Apps, and Storage Accounts via terraform module to enhance application availability and storage efficiency.
- Integrated Cross-plane with ArgoCD to enable declarative, cloud-native infrastructure management across multi-cloud environments, ensuring streamlined orchestration and enhanced operational visibility.
- Built a GenAI solution leveraging Azure OpenAI and LangChain for Retrieval-Augmented Generation (RAG) and internal module creation. Fine-tuned OpenAI models using project-specific datasets hosted securely in Azure Blob Storage.

Project: Beazley – Cloud Migration and High Availability Solutions

- Architected high-availability, multi-region Amazon ECS deployments for the Beazley project,

ensuring fault tolerance and business continuity.

- Integrated Azure Kubernetes Service (AKS) and Docker to containerize and deploy microservices, achieving improved workload scalability and streamlined resource management.

10/2021 - 10/2022

DevOps Engineer, Infogain India Private Limited, Pune, India

- Provisioned AWS resources (EC2, ELB, VPC) using Terraform, significantly enhancing scalability and reducing downtime.
- Containerized Java-based applications and deployed them on Kubernetes, optimizing resource utilization.
- Built and maintained CI/CD pipelines on Azure DevOps for seamless deployment to Kubernetes clusters using Helm charts.
- Integrated advanced monitoring and logging solutions to improve system observability and expedite incident resolution.

06/2019 - 10/2021

AZURE DEVOPS ENGINEER, Tata Consultancy Services, Pune, India

Project: Application Containerization & CI/CD for Microservices

- Dockerized a Python application and implemented deployment pipelines in Azure CI/CD, reducing deployment time and improving delivery.
- Deployed a suite of .NET microservices on Azure Kubernetes Service (AKS), enhancing scalability and reliability through automated orchestration.
- Automated infrastructure provisioning with Terraform, deploying VMs and related resources on Azure

Project: Document Processing Automation and Infrastructure Monitoring

- Automated the extraction of key-value pairs from medical documents using Azure Form Recognizer, improving processing accuracy.
- Documented technical processes and created onboarding materials, optimizing training for new team members.
- Automated manual tasks wherever possible using scripting languages like Python or Bash.

CERTIFICATIONS

- Microsoft Certified: Azure DevOps Expert (AZ-400)
- Microsoft Certified: Azure Solutions Architect Expert (AZ-305)
- Microsoft Certified: Azure Administrator Associate (AZ-104)
- Microsoft Certified: Azure Fundamentals (AZ-900)
- AWS Certified Solutions Architect – Associate (SAA-C03)
- HashiCorp Certified: Terraform Associate (002)
- GitHub Actions Certification
- Google Certified: Associate Cloud Engineer (GCP-ACE)

EDUCATION

05/2019

Bachelor Of Engineering, Computer Science & Engineering
Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal, MP

GPA: 8.9